

LOW VOLTAGE MOTORS



VR™ -Vector Ready

XT

Vector Ready

- 2000:1 Constant Torque Capability
- Encoder-Ready Design
- TEFC, TENV, or TEBC Enclosures
- Cast Iron Frame and Endbell
- Inverter-Duty Insulation System Meeting NEMA MG1 Part 31

Three Year Warranty

PRODUCT SCOPE	
Horsepower	1 Through 350 HP
RPM	1800 or 1200 RPM
Voltage	460 or 575 V
Enclosure	TEFC, TENV, and TEBC
Frames	143T through N449T
Insulation	Class-F Rated Inverter Duty, Meeting NEMA MG1 Part 31
Vibration (Unfiltered)	Typically 0.08 Inches/Second or Less

VR™ SERIES INVERTER-DUTY MOTORS



Toshiba “VR” series motors are built for the extreme operational requirements of today’s variable speed applications. These motors are designed for the most demanding applications requiring not only vector-operation capability, but survival in the severe environments associated with these applications as well. Toshiba “VR” series motors are specifically designed for inverter operation and are not intended for conventional “across-the-line” operation.

Standard Features

- 250 Frame (TENV)
- 440 Frame (TEFC, TEBC)
- Cast Iron Frames
- Double shaft extension
 - 5/8” O.D. in 140 through 210 Frame
 - 1” O.D. in 250 through 440 Frame
- Double C-Face (140 through 250 Frame)
- EQPIII Bearing Sizes
- Normally Closed Thermostat (155°C)
- TENV C-Face Footed (140 through 250 Frames)
- TEFC C-Face Footed (210 through 360 Frames)
- TEBC C-Face Footed (280 through 440 Frames)

Options

- Encoders (Hollow Shaft Designs)
- Flange Mount on 143T-256T
- Blowers
- Cast Iron Parts
- Shaft Grounding
- Space Heaters
- Inpro Seals
- Insulated Bearings

Operation

- Constant HP
 - 60 to 120 Hz (140 through 250 Frames)
 - 60 to 90 Hz (280 through 400 Frames)
- 1.0 Service Factor on VFD Power
- Constant Torque 2000:1 for TEBC and TEFC (Vector Controlled Mode)
- Constant Torque 20:1 for TEFC (V/F Mode Only)

Name Plate

- Equivalent Circuit Data
- Rotor Inertia WR^2
- Performance Data



MOTORS ADJUSTABLE SPEED DRIVES CONTROLS UPS INSTRUMENTATION PLC

TOSHIBA

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